

What is claimed is:

1. A lock with bendable shackle element openable in two ways, comprising a main body, a bendable shackle element, a combination lock core, and a key lock core:

said main body being provided at one peripheral wall with a locking slot, two ends of which are separately formed into a first locking hole and a second locking hole; a shifting member being provided inside said main body close to said second locking hole to be deflected through control of said combination lock core, and a blocking head being provided in said main body close to said first locking hole to be moved through control of said key lock core;

said bendable shackle element having two ends separately formed into a fixed head and a movable head, said fixed head being pivotally turnably connected to said main body, and said movable head being provided at a free end with a stopper, which is adapted to move into or out of said locking slot via either said first or said second locking hole;

whereby when said shifting member and said blocking head are controlled by said combination lock core

and said key lock core, respectively, to interfere with said second or said first locking hole, respectively, said movable head of said bendable shackle element is prevented from moving through said locking slot via said second or said first locking hole and thereby locks said lock; and when either said shifting member or said blocking head is controlled by said combination lock core or said key lock core, respectively, to move away from said second or said first locking hole, respectively, said movable head of said bendable shackle element is allowed to move through said locking slot via said second or said first locking hole to open said lock.

2. The lock with bendable shackle element openable in two ways as claimed in claim 1, wherein said combination lock core has an inner end bearing against a lower side of said shifting member, and a middle portion having a plurality of number rings mounted therearound for driving said combination lock core to a locked or a released state; and circumferential outer surfaces of said number rings being partially exposed from said main body.

3. The lock with bendable shackle element openable in two ways as claimed in claim 1, wherein said key lock

core is provided inside said main body and has an inner end formed into a turnable portion that could be turned with a key, and said blocking head being located at a free end of said turnable portion and having a semi-circular cross section with a straight inner side and a curved outer side; whereby when said key lock core is turned by said key to a locked state, said blocking head is brought by said turnable portion to a position interfering with said first locking hole; and said blocked first locking hole together with said second locking hole, which is interfered by said shifting member under control of said combination lock core, effectively prevent said stopper at said movable head of said bendable shackle element from moving toward either said first or said second locking hole to move out of said locking slot, so that said lock is kept in the locked state; and when said combination lock core is in a released state, said movable head of said bendable shackle element is allowed to move toward said second locking hole and deflect said shifting member from said second locking hole, and finally moves out of said locking slot via said second locking hole to open said lock; or when said key lock core is turned by said key, and said turnable portion is driven to rotate and bring said blocking head to a position without

interfering with said first' locking hole, said movable head of said bendable shackle element is allowed to shift to said first locking hole and move out of said locking slot to open said lock.

4. The lock with bendable shackle element openable in two ways as claimed in claim 1, wherein said bendable shackle element is an elongate member made of a flexible material.
5. The lock with bendable shackle element openable in two ways as claimed in claim 2, wherein said bendable shackle element is an elongate member made of a flexible material.
6. The lock with bendable shackle element openable in two ways as claimed in claim 3, wherein said bendable shackle element is an elongate member made of a flexible material.
7. The lock with bendable shackle element openable in two ways as claimed in claim 1, wherein said bendable shackle element is formed from at least two rigid curved sections that are pivotally connected to one another.

8. The lock with bendable shackle element openable in two ways as claimed in claim 2, wherein said shifting member inside said main body is provided at one side in contact with said combination lock core with a laterally projected nose portion, which deflects along with said shifting member to push said combination lock core downward by an increased distance.

9. The lock with bendable shackle element openable in two ways as claimed in claim 3, wherein said straight inner side or said curved outer side of said blocking head is protruded into or moved away from a space below said first locking hole to thereby lock or open said lock, respectively.

10. The lock with bendable shackle element openable in two ways as claimed in claim 9, wherein said shifting member inside said main body is provided at one side in contact with said combination lock core with a laterally projected nose portion, which deflects along with said shifting member to push said combination lock core downward by an increased distance.

11. The lock with bendable shackle element openable in

two ways as claimed in claim 2, wherein said combination lock core is provided at the inner end with a stop plate to increase an area for bearing against said shifting member, and around the inner end below said stop plate with a spring to elastically press said stop plate against said shifting member.

12. The lock with bendable shackle element openable in two ways as claimed in claim 3, wherein said combination lock core is provided at the inner end with a stop plate to increase an area for bearing against said shifting member, and around the inner end below said stop plate with a spring to elastically press said stop plate against said shifting member.

13. The lock with bendable shackle element openable in two ways as claimed in claim 4, wherein said combination lock core is provided at the inner end with a stop plate to increase an area for bearing against said shifting member, and around the inner end below said stop plate with a spring to elastically press said stop plate against said shifting member.

14. The lock with bendable shackle element openable in two ways as claimed in claim 5, wherein said combination lock core is provided at the inner end

with a stop plate to increase an area for bearing against said shifting member, and around the inner end below said stop plate with a spring to elastically press said stop plate against said shifting member.

15. The lock with bendable shackle element openable in two ways as claimed in claim 6, wherein said combination lock core is provided at the inner end with a stop plate to increase an area for bearing against said shifting member, and around the inner end below said stop plate with a spring elastically press said stop plate against said shifting member.

16. The lock with bendable shackle element openable in two ways as claimed in claim 7, wherein said combination lock core is provided at the inner end with a stop plate to increase an area for bearing against said shifting member, and around the inner end below said stop plate with a spring to elastically press said stop plate against said shifting member.

17. The lock with bendable shackle element openable in two ways as claimed in claim 8, wherein said combination lock core is provided at the inner end with a stop plate to increase an area for bearing against said shifting member, and around the inner

end below said stop plate with a spring to elastically press said stop plate against said shifting member.

18. The lock with bendable shackle element openable in two ways as claimed in claim 9, wherein said combination lock core is provided at the inner end with a stop plate to increase an area for bearing against said shifting member, and around the inner end below said stop plate with a spring to elastically press said stop plate against said shifting member.

19. A lock with bendable shackle element openable in two ways, comprising a main body, a combination lock core, a bendable shackle element, and a key lock core;

said main body being provided at two adjacent first and second peripheral walls with a through hole and a long locking hole, respectively, and a guide sleeve being inward extended from said through hole;

said combination lock core being an L-shaped member having a first section parallel to a third peripheral wall adjacent to said first peripheral wall with a plurality of number rings mounted therearound for controlling a sideward movement of said combination lock core in said main body, and circumferential outer



surfaces of said number rings being partially exposed from said main body; and a second section having a top laterally inward turned to form a pin portion, a free end of which is closely located at an end of said long locking hole closer to said first peripheral wall;

said bendable shackle element having two ends separately formed into a fixed head and a movable head; said fixed head being extended through said through hole into said main body and guided by said guide sleeve to connect to said second section of said L-shaped combination lock core, such that said combination lock core is shifted toward said guide sleeve when said fixed head is outward pulled; said movable head having a free end provided with an annular groove and being adapted to extend into said main body via said long locking hole, so that said pin portion of said combination lock core is engaged with said annular groove to restrict said movable head from moving; and

said key lock core being provided inside said main body, and having an inner end formed into a turnable portion that is turnable using a key, a free end of said turnable portion being provided with a radially

outward extended stop lug, which is adapted to extend toward the other end of said long locking hole to abut against one side of said movable head of said bendable shackle element opposite to said pin portion of said combination lock core and thereby locks said movable head in place;

whereby when said number rings are turned to release said combination lock core from a locked state, said combination lock core can be laterally outward shifted by pulling said fixed head of said bendable shackle element outward, causing said pin portion to disengage from said annular groove at said movable head of said bendable shackle element and thereby allowing said movable head to move out of said long locking hole to open said lock; or when said key lock core and said turnable portion are turned by a key to drive said stop lug away from said long locking hole, said stop lug no longer abuts against one side of said movable head and thereby allows said movable head to move out of said long locking hole to open said lock.

20. The lock with bendable shackle element openable in two ways as claimed in claim 19, wherein said bendable shackle element is an elongate member made of a

flexible material.

21. The lock with bendable shackle element openable in two ways as claimed in claim 19, wherein said bendable shackle element is formed from at least two rigid curved sections that are pivotally connected to one another.

22. The lock with bendable shackle element openable in two ways as claimed in claim 20, wherein a spring is provided between said combination lock core and said main body to extend in parallel with said through hole, so as to provide said pin portion of said combination lock core with an elasticity to engage with or disengage from said annular groove around said movable head of said bendable shackle element.

23. The lock with bendable shackle element openable in two ways as claimed in claim 21, wherein a spring is provided between said combination lock core and said main body to extend in parallel with said through hole, so as to provide said pin portion of said combination lock core with an elasticity to engage with or disengage from said annular groove around said movable head of said bendable shackle element.